

ARCHIV FÜR HYDROBIOLOGIE

Organ d. Internationalen Vereinigung f. Theoretische u. Angewandte Limnologie

Herausgegeben von

Prof. Dr. H.-J. ELSTER
Konstanz/Bodensee

Prof. Dr. Dr. h. c. W. OHLE
Plön/Holstein

Unter Mitwirkung von Dr. T. T. MACAN, Ambleside

Weitere Mitarbeiter: S. BJÖRK, Lund; P. BOURRELLY, Paris; G. E. HUTCHINSON, New Haven/Connecticut; P. M. JONASSON, Hillerød; H. KAUSCH, Hamburg; S. J. KUSNEZOW, Moskau; M. E. MEFFERT, Plön; J. OVERBECK, Plön; R. RYHÄNEN, Helsinki; Y. SAIJO, Chikusa-ku, Nagoya; V. SLÁDEČEK, Praha; E. STEEMANN NIELSEN, København; M. TILZER, Konstanz; M. UÉNO, Otsu-Shi; J. R. VALLENTYNE, Burlington; P. VIVIER, Paris; R. G. WETZEL, Hickory Corners/Michigan

Band

96

Mit 219 Abbildungen und 83 Tabellen im Text



E. Schweizerbart'sche Verlagsbuchhandlung
(Nägele u. Obermiller) · Stuttgart 1983

© by Schweizerbart'sche Verlagsbuchhandlung (Nägele u. Obermiller), Stuttgart,
1983

All rights reserved including translation into foreign languages.
This journal or parts thereof may not be reproduced in any form without permission from the publishers.

Valid for users in USA:

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per-copy fee through the Copyright Clearance Center, Inc., P.O.B. 8891 Boston, Mass. 02114, U.S.A., for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law.

Printed in Germany

Calwer Druckzentrum GmbH

Inhalt von Band 96

DUDGEON, DAVID: An investigation of physical and biological processing of two species of leaf litter in Tai Po Kau Forest Stream, New Territories, Hong Kong. (With 12 figures and 4 tables in the text)	1— 32
DUDGEON, DAVID: An investigation of the drift of aquatic insects in Tai Po Kau Forest Stream, New Territories, Hong Kong. (With 3 figures and 1 table in the text)	434—447
ESTEVEZ, FRANCISCO DE ASSIS: Levels of phosphate, calcium, magnesium and organic matter in the sediments of some Brazilian reservoirs and implications for the metabolism of the ecosystems. (With 1 figure and 1 table in the text)	129—138
FJERDINGSTAD, ERIK & NILSEN, JENS PETTER: Heavy metal distribution in Norwegian acidic lakes: A preliminary record. (With 6 figures and 5 tables in the text)	190—204
FONTAINE, THOMAS D. III & NIGH, DAVID G.: Characteristics of epiphyte communities on natural and artificial submersed lotic plants: Substrate effects. (With 4 figures and 1 table in the text)	293—301
FRANK, C.: Ecology, production and anaerobic metabolism of <i>Chironomus plumosus</i> L. larvae in a shallow lake. II. Anaerobic metabolism. (With 4 figures and 5 tables in the text)	354—362
GALLEGOS, CHARLES L., CHURCH, M. ROBBINS, KELLY, MAHLON G. & HORNBERGER, GEORGE M.: Asynchrony between rates of oxygen production and inorganic carbon uptake in a mixed culture of phytoplankton. (With 4 figures and 1 table in the text)	164—175
GROBELAAR, JOHAN U.: Availability to algae of N and P adsorbed on suspended solids in turbid waters of the Amazon River. (With 7 figures and 5 tables in the text)	302—316
HARTMANN, JÜRGEN: Two feeding strategies of young fishes. (With 18 figures and 2 tables in the text)	496—509
HILL, GARY & RAI, HAKUMAT: A preliminary characterization of the tropical lakes of the Central Amazon by comparison with polar and temperate systems. (With 3 figures and 2 tables in the text)	97—111
KAIRESALO, TIMO: Photosynthesis and respiration within an <i>Equisetum fluviatile</i> L. stand in Lake Pääjärvi, southern Finland. (With 4 figures and 4 tables in the text)	317—328
KING, R. D. & TYLER, P. A.: Sulphide Pool and Lake Morrison, meromictic lakes of south-west Tasmania. (With 19 figures and 3 tables in the text)	139—163
KRAIEM, M. M.: Etude comparative de l'âge et de la croissance du Barbeau, <i>Barbus barbus</i> (L.), [Poissons, Cyprinidés] dans deux rivières françaises, le Rhône et l'Allier. [The age and growth of the Barbel, <i>Barbus barbus</i> (L.) in two French rivers, the Rhône and the Allier: a comparative study.] (Avec 14 figures, 4 tableaux et 2 annexes dans le texte)	73— 96
LASTEIN, EBBE: Automatic system for measurements in shallow lakes. (With 10 figures in the text)	245—260
LEHMANN, RUTH: Untersuchungen zur Sedimentation in einem oligotrophen Alpensee (Königssee) während der sommerlichen Schichtung. [Sedimentation in an oligotrophic alpine lake (Königssee) during summer stagnation.] (Mit 4 Abbildungen im Text)	486—495
MALICKY, HANS: Chorological patterns and biome types of European Trichoptera and other freshwater insects. (With 28 figures in the text)	223—244
POLLINGER, U. & BERMAN, T.: Relative contributions of net and nanno phytoplankton to primary production in Lake Kinneret (Israel). (With 2 figures and 8 tables in the text)	33— 46
PIP, EVA & ROBINSON, G. G. C.: A study of the seasonal dynamics of three phycoperiphytic communities, using nuclear track autoradiography. II. Organic carbon uptake. (With 6 figures and 2 tables in the text)	47— 64
RICHARDOT-COULET, MONIQUE, RICHOUX, PHILIPPE & ROUX, CHANTAL: Structure et fonctionnement des écosystèmes du Haut Rhône français. 29. Structure des peuplements de macroinvertébrés benthiques d'un ancien méandre. [Structure and dynamics of the French Upper Rhône ecosystems: Structure of the benthic	

macroinvertebrates populations in an old meander.] (Avec 9 figures et 3 tableaux dans le texte)	363—383
RIPEY, BRIAN: A laboratory study of the silicon release process from a lake sediment (Lough Neagh, Northern Ireland). (With 5 figures and 5 tables in the text)	417—433
ROUNICK, J. S. & WINTERBOURN, M. J.: Leaf processing in two contrasting beech forest streams: Effects of physical and biotic factors on litter breakdown. (With 8 figures and 3 tables in the text)	448—474
SCULLION, J.: Effects of impoundments on downstream bed materials of two upland rivers in mid-Wales and some ecological implications of such effects. (With 3 figures and 4 tables in the text)	329—344
SEKI, H., WHITNEY, F. A. & WONG, C. S.: Copper effect on dynamics of organic materials in marine controlled ecosystems. (With 4 figures and 8 tables in the text)	176—189
SOMMER, ULRICH: Nutrient competition between phytoplankton species in multispecies chemostat experiments. (With 4 figures and 2 tables in the text)	399—416
STEBING, LORE, FRICKE, GÜNTER & JEHN, HELMUT: Veränderung des Algenspektrums der Eder im Verlauf von vier Jahrzehnten. [Changes of the spectrum of algae of the Eder river during the last four decades.] (Mit 5 Abbildungen und 2 Tabellen im Text)	205—222
TAM, F. Y. & WONG, M. H.: Sewage sludge for cultivating freshwater algae and the fate of heavy metals at higher trophic organisms. I. Different methods of extracting sewage sludge on the properties of sludge extracts. (With 2 figures and 1 table in the text)	475—485
TAYLOR, D. I.: The effects of a major macrophyte regression upon primary production in the littoral of Swartvlei. (With 1 figure and 3 tables in the text)	345—353
THIRB, H. H. & BENSON-EVANS, K.: The effect of different current velocities on the red alga <i>Lemanea</i> in a laboratory stream. (With 2 figures and 1 table in the text)	65—72
WRIGHT, J. F., HILEY, P. D., CAMERON, A. C., WIGHAM, M. E. & BERRIE, A. D.: A quantitative study of the macroinvertebrate fauna of five biotopes in the River Lambourn, Berkshire, England. (With 8 figures and 2 tables in the text)	271—292
Kleine Mitteilungen	
AMBE, MITSUKO: In memory of KEN SUGAWARA. (With 1 figure in the text)	391—398
ARORA, ASHA & GUPTA, A. B.: The effect of copper sulphate on formation of separation discs in <i>Oscillatoria</i> spec. (With 2 figures in the text)	261—266
BARILA, T. Y., STAUFFER, J. R. Jr. & HOCUTT, C. H.: Temperature preference and avoidance response of the common shiner, <i>Notropis cornutus</i> (MITCHILL). (With 1 figure and 1 table in the text)	112—119
CASEY, H. & WALKER, S. M.: Comparison of filtration methods using GF/C and 0.45 μ membrane filters of reactive phosphate, dissolved silicon and iron concentrations in chalk water samples. (With 4 tables in the text)	515—520
KERSTING, KEES: Direct determination of the "threshold food concentration" for <i>Daphnia magna</i> . (With 2 figures in the text)	510—514
MEYER, ELISABETH: Über Möglichkeiten der Geschlechterunterscheidung bei <i>Hydrodroma despicens</i> (O. F. MÜLLER 1776) (Hydrachnellae, Acari). [On the possibilities of differentiating the sexes of <i>Hydrodroma despicens</i> (O. F. MÜLLER 1776) (Hydrachnellae, Acari).] (Mit 5 Abbildungen im Text)	384—390
MORAITOU-APOSTOLOPOULOU, M., VERRIOPOULOS, G. & DIKAIKOU, N.: Influence of light conditions on the offspring production and the sex ratio of <i>Tisbe holothuria</i> , Humes (Copepoda, Harpacticoida). (With 2 figures and 1 table in the text)	120—127
STEINER, WERNER: Sexuelle Fortpflanzung von <i>Dugesia tigrina</i> (GIRARD) (Turbellaria: Tricladida) im Zürichsee. [Sexual reproduction of <i>Dugesia tigrina</i> (GIRARD) (Turbellaria: Tricladida) in the Lake of Zurich.] (Mit 1 Abbildung und 1 Tabelle im Text)	521—524
Buchbesprechungen	267—270, 525—526
Kongreß	128